



17W

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: DAVID W. BROWN et al.)
Serial No.: 10/761,537) Attorneys' Ref. P214419
Filing Date: 01/21/2004) Art Unit: 2188
Title: MOTION CONTROL SYSTEMS)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §1.56, the Applicant respectfully submits this Supplemental Information Disclosure Statement to call to the attention of the Examiner the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration in the prosecution of the above-referenced application for U.S. patent. Copies of the foreign and non-patent references are attached hereto for the Examiner's convenience.

Citation of a reference in this Information Disclosure Statement is not an admission that the reference is prior art to the present invention.

It is believed that no fee is due at this time to maintain the application in full force and effect, however if any such fee is due please charge this to Deposit Account No. 502099.

REMARKS

U.S. Patent No. 4,815,011 to Mizuno et al. discloses a robot control apparatus having a user interface that limits user access to predefined words to limit syntax errors while programming in a machine language.

U.S. Patent No. 4,688,195 to Thompson et al. discloses a natural language based system for facilitating the design of computer interfaces. The user is provided

with a menu of words that can legally follow commands in the context of a particular database system.

U.S. Patent No. 4,782,444 to Munshi et al. discloses a method of allocating and optimizing registered assignments during the compiling of source into executable code. Local register allocation and assignments are generated by performing a "two-colored pebble game" heuristic.

U.S. Patent No. 4,912,650 to Tanaka et al. discloses a system for controlling operation of a robot offline. In situations where input of a prescribed signal is being awaited, a key is pressed to simulate the generation of this prescribed signal at an appropriate port.

U.S. Patent No. 5,020,021 to Kaji et al. discloses a system for translating between languages such as Japanese and English.

U.S. Patent No. 5,175,684 to Chong discloses a system for translating between natural languages such as Japanese and English.

U.S. Patent No. 5,175,856 to Van Dyke et al. discloses a compilation system for compiling source code into executable object code. An integrated, intermediary representation supports machine independent and machine dependent optimizations of the resulting object code.

U.S. Patent No. 5,541,838 to Koyama et al. discloses a machine for translating between natural languages such as Japanese and English.

U.S. Patent No. 6,070,010 to Keenleyside et al. discloses a system for aligning data in stack memory in a data processing system. The stack memory provides temporary storage for storing parameters for a function call.

U.S. Patent No. 6,090,156 to MacLeod discloses a register allocator for allocating machine registers during compilation of a computer program.

U.S. Patent No. 6,233,545 to Datig discloses a universal machine translator for natural languages.

U.S. Patent No. 6,317,871 to Andrews et al. discloses a system used by a computer program translator. The system identifies the false structure of computer programs and maintains textual consistency of each piece of generated code and the resultant code files.

U.S. Patent No. 6,425,118 to Molloy et al. discloses a system for automatically generating self checking tests of source to source computer language translations.

U.S. Patent No. 6,463,404 to Appleby discloses a system for translating between natural languages.

U.S. Patent No. 4,199,814 to Rapp et al. discloses a system for allowing the building or changing of a program stored on a machine tool.

U.S. Patent No. 5,005,135 to Morser et al. discloses a system for correcting path radius errors in a motion control system.

U.S. Patent No. 5,511,147 to Abdel-Malek discloses a graphical interface for robot control programs.

Japanese Patent No. JP 08161335 A to Fukumochi appears to disclose a natural language translation system.

Japanese Patent No. JP 2000020114 A to OBA et al. appears to disclose a method of controlling a motion system in which machine control language is converted to sequence control language and loaded onto a motion controller.

European Patent No. EP 821522 A2 to Sato et al. discloses a camera control apparatus that allows the camera to be controlled over the internet. This system handles characters in a character string of file name of a control request as camera control characters. The character string includes description corresponding to the format for camera control.

U.S. Pub. No. 2001/0029443 A1 to Miyahira discloses a natural language translation system.

U.S. Pub. No. 2001/0037492 A1 to Holzmann discloses a system for verifying that a software system satisfies a property. Source strings generated from the code are translated subject to an abstraction filter or conversion table. Logic model checkings are performed on the abstracted verification model.

U.S. Pub. No. 2002/0165708 A1 to Kumhyr discloses a system for translating natural languages.

Microsoft Corporation's Windows 3.1. SDK Guide to Programming, Chapter 2, "Dynamic Data Exchange" discloses Microsoft's Dynamic Data Exchange (DDE)

method of transferring data between applications. The DDE protocol simplifies data exchange between applications.

Microsoft Corporation's Win32 SDK: Prog. Ref. Vol. 2, Chapter 77, "Dynamic Data Exchange Management Library" describes an application programming interface, commonly referred to as DDEML, that may be implemented by an application to allow interprocess communications using Microsoft's Dynamic Data Exchange Protocol.

Microsoft Corporation's Windows for Workgroups 3.1 Resource Kit, Chapter 11, "Network Dynamic Data Exchange" describes the implementation of Microsoft's DDE protocol over a network.

CONCLUSION

The Applicant respectfully submits that these references, taken alone or in combination, neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the pending application is respectfully requested. If there is any matter which could be expedited by consultation with the Applicant's attorney, such would be welcome. The Applicant's attorney can normally be reached at the telephone number below.

Signed at Bellingham, County of Whatcom, State of Washington, this 18th day of April, 2005.

Respectfully submitted,

David W. Brown et al.

By Michael R. Schacht
Michael R. Schacht, Reg. No. 33,550
Schacht Law Office, Inc.
2801 Meridian Street, Suite 202
Bellingham, WA 98225-2400
Tel: (360) 647-0400
Fax: (360) 647-0412

CERTIFICATE OF MAILING 37 C.F.R. §1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Signature: Robin Fry

Print Name: Robin Fry

Date: April 18, 2005

Substitute for form 1449B/PTO

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of 1

Application Number 10/761,537

Filing Date 01/21/2004

First Named Inventor David W. Brown

Group Art Unit 2188

Examiner Name

Attorney Docket Number P214419

U.S. PATENT

Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
		4,815,011		Mizuno et al.	03-1989	
		4,688,195		Thompson et al.	08-1987	
		4,782,444		Munshi et al.	11-1988	
		4,912,650		Tanaka et al.	03-1990	
		5,020,021		Kaji et al.	05-1991	
		5,175,684		Chong, Leighton K.	12-1992	
		5,175,856		Van Dyke et al.	12-1992	
		5,541,838		Koyama et al.	05-2000	
		6,070,010		Keenleyside et al.	05-2000	
		6,090,156		MacLeod, Andrew W.	07-2000	
		6,233,545		Datig, William E.	05-2001	
		6,317,871		Andrews et al.	11-2001	
		6,425,118		Molloy et al.	07-2002	
		6,463,404		Appleby, Stephen C	10-2002	
		4,199,814		Rapp et al.	04-1980	
		5,005,135		Morser et al.	04-1991	
		5,511,147		Abdel-Malek, Karim	04-1996	

FOREIGN PATENT

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures	† ⁶
		Office ³	Number	Kind Code ⁵ (if known)				
			JP 8161335A		Fukumochi, Youji	06-1996		
			JP2000020114A		OBA et al.	01-2000		
			EP 821522 A2		SATO et al.	01-1998		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box --> ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/761,537
		Filing Date	01/21/2004
		First Named Inventor	David W. Brown
		Group Art Unit	2188
		Examiner Name	
Sheet 1	of 1	Attorney Docket Number	P214419

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
		U.S. Pub. No 2001/0029443 A1 to Miyahira	
		U.S. Pub. No. 2001/0037492 A1 to Holzmann	
		U.S. Pub. No. 2002/0165708 A1 to Kumhyr	
		MICROSOFT CORPORATION; "Dynamic Data Exchange"; <u>Windows 3.1 SDK Guide to Programming</u> ; 1992, 1993; Chapter 22; 21 pages.	
		MICROSOFT CORPORATION; "Dynamic Data Exchange Management Library"; <u>Win32 SDK: Prog. Ref. Vol. 2</u> ; 1992, 1993; Chapter 77; 26 pages.	
		MICROSOFT CORPORATION; "Network Dynamic Data Exchange"; <u>Windows for Workgroups 3.1 Resource Kit</u> ; 1992, 1993; Chapter 11; 19 pages.	

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.